

SEQUENCE LISTING

<110> Hannah, L. Curtis
Greene, Thomas W.

<120> Heat Stable Mutants of Starch Biosynthesis Enzymes

<130> UF-178AXC2

<150> US 09/312,433

<151> 1999-05-14

<150> US 60/085,460

<151> 1998-05-14

<150> US 08/972,545

<151> 1997-11-18

<150> US 60/031,045

<151> 1996-11-18

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Ser Val Gln Ala Cys Ile Phe Thr Gly Tyr Trp Glu Asp Val Gly Thr
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Ile

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Ile

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Asn Val Gln Ala Tyr Val Phe Thr Asp Tyr Trp Glu Asp Ile Gly Thr
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Ile

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Ile

<210> 5
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Asn Val Gln Ala Tyr Ile Phe Lys Asp Tyr Trp Glu Asp Ile Gly Thr
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Ile

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Cys Ile Ile Asp Met Asn Ala Arg Ile Gly
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Ala Gly Lys Val Pro Ile Gly Ile Gly Arg Asn Thr Lys Ile Arg Asn
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Cys Ile Ile Asp Met Asn Ala Arg Ile Gly
 20 25

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Glu Gly Lys Val Pro Ile Gly Val Gly Glu Asn Thr Lys Ile Ser Asn
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Cys Ile Ile Asp Met Asn Ala Arg Ile Gly
 20 25

<210> 9
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 <213> Hordeum vulgare

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Glu Gly Lys Val Pro Ile Gly Val Gly Glu Asn Thr Lys Ile Ser Asn
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Cys Ile Ile Asp Met Asn Ala Arg Ile Gly
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Glu Gly Lys Val Pro Ile Gly Ile Gly Glu Asn Thr Lys Ile Arg Lys
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Cys Ile Ile Asp Lys Asn Ala Lys Ile Gly
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<210> 11

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<213> Spinicia oleracea

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Ile Lys Asp Ala Ile Ile Asp Lys Asn Ala Arg
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<213> TS48 Mutant of Zea mays

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Cys Ser Arg Val Ser Ser Gly Cys Glu Phe Lys Asp Ser Val Met Met
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Gly Ala Asp Ile
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<213> Zea mays

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Cys Ser Arg Val Ser Ser Gly Cys Glu Leu Lys Asp Ser Val Met Met
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Gly Ala Asp Ile
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Arg Ser Arg Leu Asn Ser Gly Ser Glu Leu Lys Asn Ala Met Met Met
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Gly Ala Asp Ser
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Arg Ser Arg Leu Asn Ser Gly Ser Glu Leu Lys Asn Ala Met Met Met
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Gly Ala Asp Ser
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<400> 17

Asp Phe Gly Ser Lys Ile Leu Pro Arg Ala Val Leu Asp His Ser Val
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Gln Ala Cys Ile Phe Thr Gly Tyr
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 <212> PRT
 <213> Zea mays

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Gln Ala Cys Ile Phe Thr Gly Tyr
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<212> PRT
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1 5 10 15

Gln Ala Tyr Val Phe Thr Asp Tyr
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<212> PRT
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Gln Ala Tyr Val Phe Thr Asp Tyr
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Lys Val Ala Cys Val Phe Thr Glu Tyr
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Thr Glu Gln Pro Ser Lys Phe Asp Phe
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1 5 10 15

Thr Glu Gln Pro Ser Lys Phe Asp Phe
20 25

<210> 24
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<212> PRT
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Cys Glu Gln Pro Pro Lys Phe Glu Phe
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<210> 25
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<213> Hordeum vulgare

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Glu Asp Ile Gly Thr Ile Arg Ser Phe Phe Asp Ala Asn Met Ala Leu
1 5 10 15

Cys Glu Gln Pro Pro Lys Phe Glu Phe
20 25

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Glu Asp Ile Gly Thr Ile Lys Ser Phe Phe Asp Ala Asn Leu Ala Leu
1 5 10 15

Thr Glu Gln Pro Pro Lys Phe Glu Phe
 20 25

<210> 27
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 <213> RTS48-2 Mutant of Zea mays

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Ser Ile Arg Lys
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<210> 28
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Thr Gln Met Pro Glu Glu Pro Ala Gly Trp Phe Gln Gly Thr Ala Asp
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Ser Ile Arg Lys
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<210> 29
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<400> 29

Thr Gln Met Pro Gly Glu Ala Ala Gly Trp Phe Arg Gly Thr Ala Asp
 1 5 10 15

Ala Val Arg Lys
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Thr Gln Met Pro Gly Glu Ala Ala Gly Trp Phe Arg Gly Thr Ala Asp
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Ala Val Arg Lys
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Thr Gln Met Pro Asp Glu Pro Ala Gly Trp Phe Gln Gly Thr Ala Asp
1 5 10 15

Ala Ile Arg Lys
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Asp Lys Cys Lys Met Lys Tyr Val Phe Ile Ser Asp Gly Cys Leu Leu
1 5 10 15

Arg Glu

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Asp Lys Cys Lys Met Lys Tyr Ala Phe Ile Ser Asp Gly Cys Leu Leu
1 5 10 15

Arg Glu

<210> 34
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Arg Glu

<210> 35
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<400> 35

Asp Lys Cys Arg Ile Lys Glu Ala Ile Ile Ser His Gly Cys Phe Leu
1 5 10 15

Arg Glu

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Asp Lys Cys Lys Cys Lys Ile Lys Asp Ala Ile Ile Ser Asp Gly Cys
1 5 10 15

Ser Phe Ser Glu
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